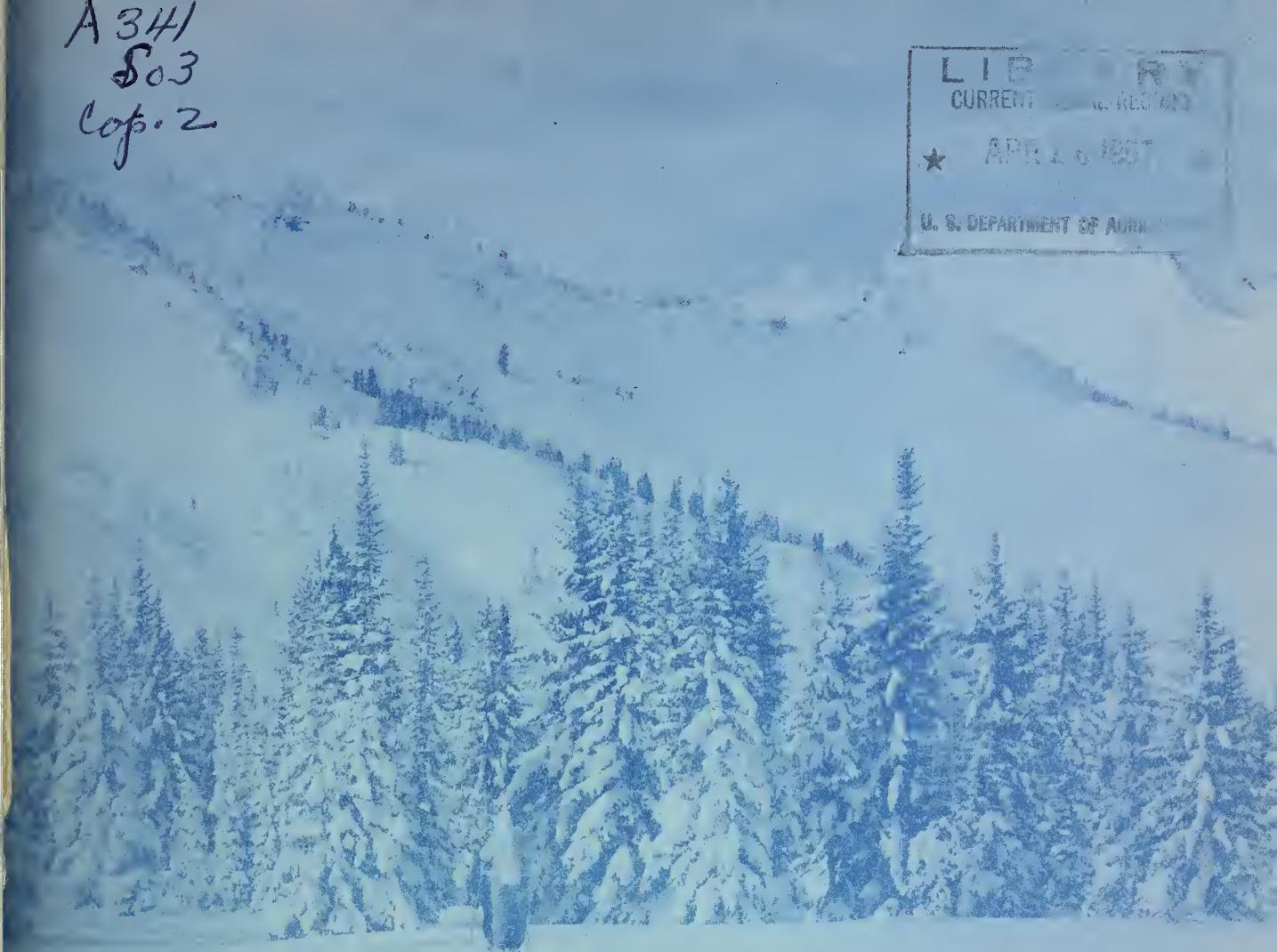
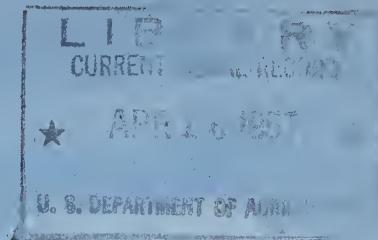


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Do not assume content reflects current scientific knowledge, policies, or practices.

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FEDERAL - STATE COOPERATIVE
SNOW SURVEYS and WATER SUPPLY FORECASTS
for
WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies named above
in cooperation with the U. S. Forest Service, Bureau of Reclamation,
National Park Service, and other Federal, State and local organiza-
tions.

AS OF
APR. 1, 1957

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY
AND WATER SUPPLY FORECAST REPORTS

Snow surveys in the west are conducted each year at more than 1200 snow courses. Basin and Province or State snow survey reports summarizing the results of the measurements and forecasts of seasonal runoff and water supply are issued by the Soil Conservation Service, U. S. Department of Agriculture and some of its co-operators; the Water Rights Branch of the British Columbia Department of Lands and Forests; and the California Division of Water Resources.

Copies of the various federal-state cooperative snow survey reports listed below may be secured by writing to:

Head, Water Supply Forecasting Section
Soil Conservation Service
209 S. W. 5th Avenue
Portland 4, Oregon

BASIN REPORTS:

Colorado, Rio Grande,.. Issued monthly February through May by SCS and Colorado and Platte-Arkansas Experiment Station, Fort Collins, Colorado.*
River Basins

Columbia River Issued monthly January through May by Soil Conservation Service, Boise, Idaho.*

Upper Missouri Issued monthly February through May by SCS and Montana Agricultural Experiment Station, Bozeman Montana.*

West-Wide Water Issued April 1 by Soil Conservation Service and Co-Supply Outlook operators, Portland, Oregon.

STATE REPORTS:

Arizona Issued semi-monthly January 15 through April 1 by SCS and Salt River Valley Water Users Association, Phoenix, Arizona.*

Nevada Issued monthly February through April by SCS and Nevada State Engineer, Reno, Nevada.*

Oregon Issued monthly January through May by SCS, Portland, Oregon, and Oregon Agricultural Experiment Station.*

Utah Issued monthly January through May by SCS, Salt Lake City, Utah, and State Engineer of Utah and Utah Agricultural Experiment Station.*

Washington Issued monthly February through May by SCS, Spokane, Washington, and State Department of Conservation and Development.*

Wyoming Issued monthly February through May by SCS, Casper, Wyoming, and State Engineer of Wyoming.*

*Special reports are issued as needed.

The British Columbia reports are issued February 1 through June 1 and may be secured from Comptroller, Water Rights Branch, Department of Lands and Forests, Parliament Building, Victoria, B. C.

The California reports are issued monthly February 1 through May 1 and may be secured from Division of Water Resources, California Department of Public Works, Sacramento, California.

The annual water supply forecasts of the Weather Bureau are available in monthly bulletins published from January through May. These bulletins entitled, "Water Supply Forecasts for the Western United States" may be obtained from River Forecast Center, Weather Bureau, 712 Federal Office Building, Kansas City 6, Missouri.

FEDERAL-STATE COOPERATIVE
SNOW SURVEYS AND WATER FORECASTS
FOR
WYOMING

Issued
April 1, 1957

Report Prepared
by
George W. Peak
Snow Survey Supervisor

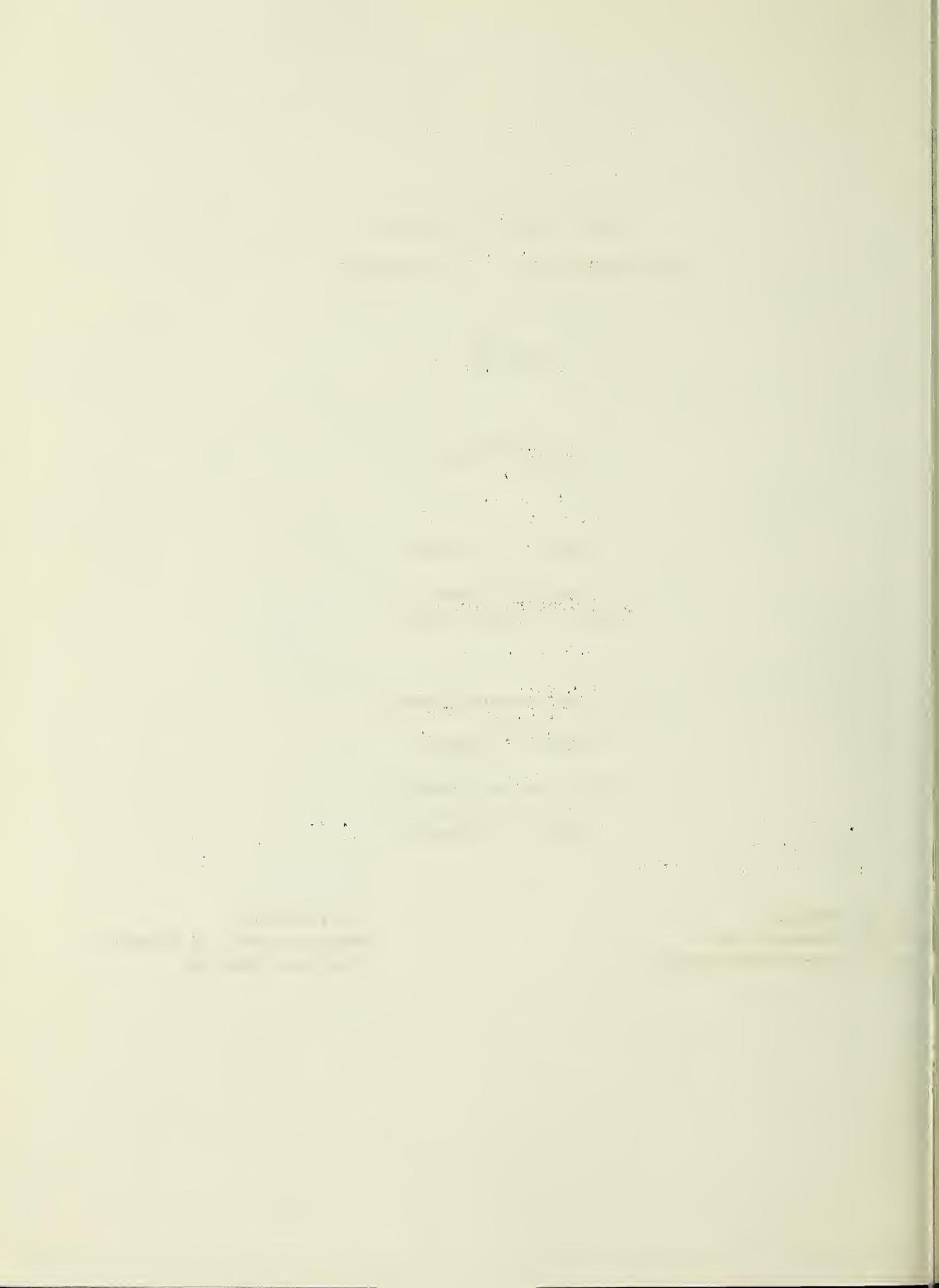
Soil Conservation Service
and
State of Wyoming

345 East 2nd Street
P. O. Box 699
Casper, Wyoming

Issued by

B. H. Hopkins
State Conservationist
Soil Conservation Service

L. C. Bishop
State Engineer of Wyoming
Cheyenne, Wyoming



PRELIMINARY WATER SUPPLY OUTLOOK
FOR
WYOMING
APRIL 1, 1957

SNAKE RIVER BASIN

Soil moisture in the Snake River Basin above Moran is 85 per cent of normal; however, a fairly heavy snow pack indicates a seasonal runoff of 111 per cent of average, or about 953,000 acre feet of water into Jackson Lake. Pacific Creek will discharge 117 per cent of normal, Buffalo Fork, Gros Ventre, and the Hoback are below normal with flows of about 92 per cent of normal. The Snake River Basin will discharge 3,000,000 acre feet into Palisades Reservoir, which is two per cent above average.

Current usable storage in Jackson Lake and Palisades Reservoir is 149,000 and 308,000 acre feet, respectively.

The Salt River in the Star Valley is expected to yield 407,000 acre feet, or 113 per cent of the fifteen year average.

GREEN RIVER BASIN

The snow pack in the Green River Basin is close to normal; however, a soil moisture deficit will reduce the discharge of this basin to 95 per cent at Warren Bridge and at Fontenelle and 90 per cent of average, or 1,175,000 acre feet in Linwood, Utah. North Piney and the New Fork

Creeks are expected to yield 108 per cent and 95 per cent respectively. Smith's Fork and the Bear River Watersheds indicate runoffs of 97 per cent near Border and 100 per cent near Evanston.

NORTH PLATTE BASIN

The April 1, 1957, snow packs on the North Platte Watershed in Wyoming and Colorado are standing at 130 per cent of normal. There is an extremely heavy deficit in the soil moisture throughout this basin, which must first be brought to field capacity by snow melt with the resultant loss to runoff.

Stream flow during April to September, 1957, is expected to be about 107 per cent of normal at Saratoga. Because of lack of current reservoir storage, water shortages may be expected for some irrigated areas of eastern Wyoming and western Nebraska. Should snow fall for the next month and precipitation next summer be deficient, an inadequate supply can be expected. The most probable outlook at this time is considered as fair. Water supply will not be adequate in the Wheatland area served by the Laramie River, but prospects are better than in 1956.

WIND RIVER BASIN

Snow surveys in the Wind River Basin above Boysen Reservoir indicate deficits ranging from 10 to 32 per cent for April 1, 1957. Boysen Reservoir is storing 34 per cent of capacity. The discharge into this Reservoir is expected to be 675, 000 acre feet, or 72 per cent of normal. The flow of the Wind River at Riverton will be 70 per cent of average, and 75 per cent of normal is expected for the Popo Agie near Riverton.

BIG HORN BASIN

Below Boysen snow surveys indicate a subnormal accumulation of the water content in the snow. Shortages are expected in the stream flow from the Owl Creek range. To the north Buffalo Bill Reservoir contains 46 per cent of normal for this time of year but about the same storage as that for the past few years. Anticipated seasonal flow for the Shoshone River above the Reservoir is 95 per cent of average, or 780, 000 acre feet.

, BIG HORN MOUNTAINS

This is the second year of data for the network established in the Big Horn Mountains. At present the snow courses throughout these

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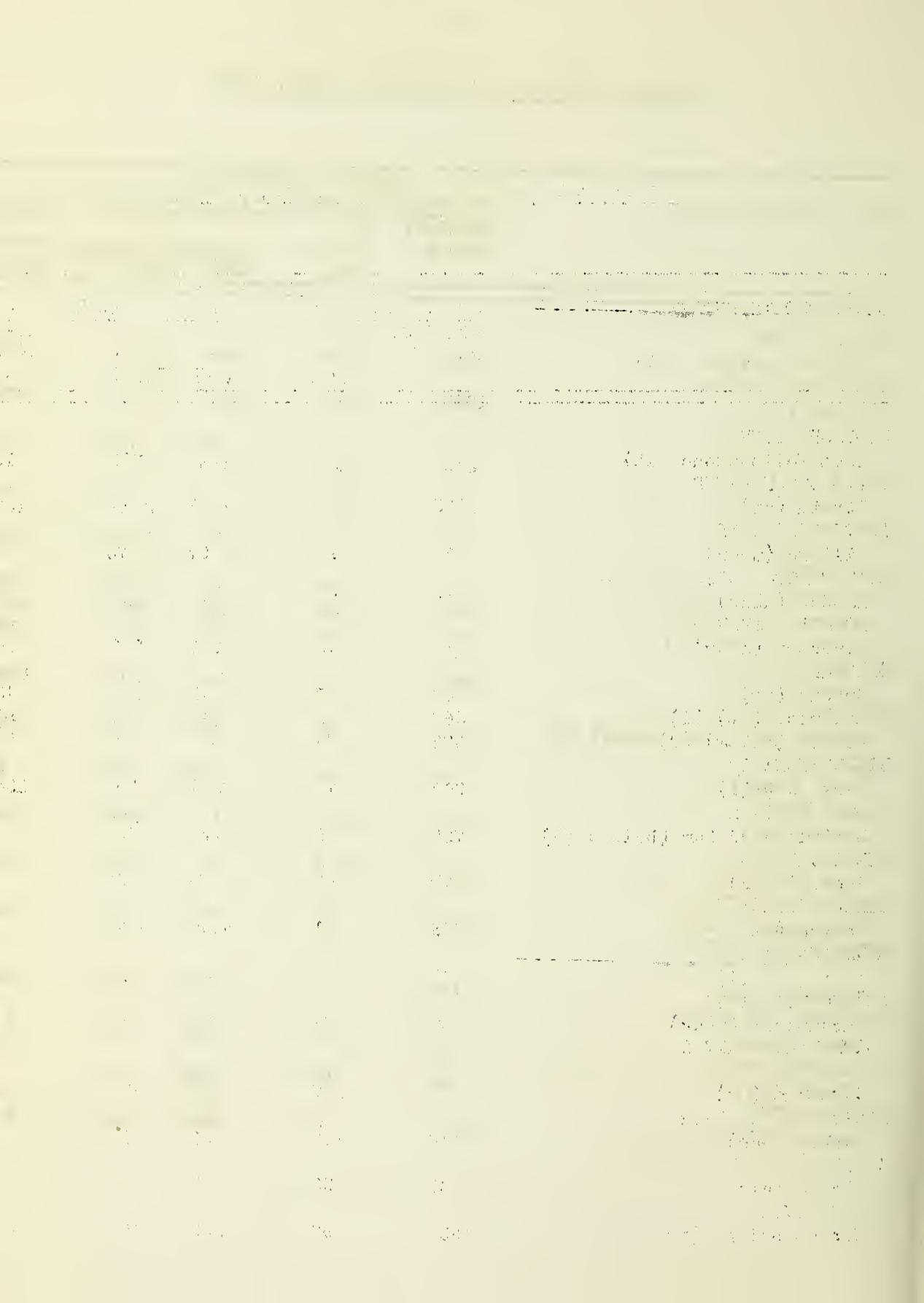
mountains are standing at 70 to 100 per cent of the snow cover for this time last year. There was very little snow fall during February, but the increment during March has helped considerably. Generally speaking, water supplies from the Big Horn Mountains will range from slightly below normal on the west slopes to considerably below average on the north and east flanks.

the first time in the history of the world, the whole of the
population of the earth has been gathered together in one
place, and that place is the city of New York.

The population of New York is now estimated at 2,000,000.

WYOMING STREAM-FLOW FORECASTS APRIL, 1957

BASIN AND TRIBUTARY	April-September 30 Seasonal Stream-Flow in Thousands of Acre Feet				
	FORECAST RUNOFF	%	Measured Runoff		15-Yr. Average
		15-Yr. Avg.	1955	1954	1938-52
MADISON RIVER					
West Yellowstone (at)	210	106	183	219	198
YELLOWSTONE RIVER					
Corwin (at)	1885	101	1527	2014	1870
NORTH POPO AGIE					
Milford (near)	75	50	57	73	83**
LITTLE POPO AGIE					
Lander (near)	42	59	25	39	53**
POPO AGIE RIVER					
Riverton (near)	260	75	171	230	345**
WIND RIVER					
Dubois (at)	89	87	66	105	102**
Riverton (at) (1)	360	70	101	287	511
Boysen (below) (2)	675	72	401	629	939
BIG HORN RIVER					
Kane (at) (2)	940	70	703	696	1344
SHOSHONE RIVER					
Buffalo Bill Dam (below) (3)	780	95	534	766	823
SHELL CREEK					
Shell (near)	70	95	72	52	74**
CLARKS FORK					
Chance (at)	583	101	419	600	580
LARAMIE RIVER					
Jelm (at) (4)	115	109	84	46	105*
ENCAMPMENT RIVER					
Encampment (near)	150	94	86	72	160*
NORTH PLATTE RIVER					
Saratoga (at)	700	107	319	234	657
MEDICINE BOW RIVER					
Hanna (near)	116	105	51	17	111
SWEETWATER RIVER					
Alcova (at)	69	95	35	45	73
GREEN RIVER					
Warren Bridge (at)	323	97	253	354	333



WYOMING STREAM-FLOW FORECASTS APRIL, 1957

BASIN AND TRIBUTARY	April-September 30 Seasonal Stream-Flow in Thousands of Acre Feet					15-Yr. Average 1938-52
	FORECAST RUNOFF	% 15-Yr. AVG.	Measured Runoff 1955	Runoff 1954		
NORTH PINEY CREEK						
Mason (near)	40	108	24	35		37
NEW FORK CREEK						
Boulder (near)	235	95	161	259		248
GREEN RIVER						
Fontenelle (at)	900	97	623	896		931
Linwood (at) Utah	1175	90	756	901		1300
SNAKE RIVER						
Moran (at) (5)	953	111	738	1010		858
PACIFIC CREEK						
Moran (near)	194	117	142	230		166*
BUFFALO FORK						
Moran (near)	330	93	315	418		356**
GROS VENTRE						
Kelly (at)	237	91	199	293		261**
HOBACK						
Jackson (near)	356	92	290	448		386**
SNAKE RIVER						
State Line (at) (5)	3000	102	2516	3250		2949**
Heise (at) (5)	3930	102	2925	4001		3834
SALT RIVER						
State Line (at)	407	113	231	287		360
BEAR RIVER						
Evanston (near)	142	100	74	55		142
Randolph (near)	108	93	26	15		116*
Harer (at) Idaho	270	96	116	100		281
SMITHS FORK						
Border (near)	111	97	78	89		114*

All stream data taken from observed flow records with the following exceptions:

- (1) Observed flow corrected for storage in Bull Lake and Pilot Butte reservoirs.
- (2) Observed flow corrected for storage in boysen, Bull Lake and Pilot Butte Reservoirs.
- (3) Observed flow corrected for storage in Buffalo Bill Reservoir and Hart Mountain Diversion.
- (4) Observed flow corrected for Colorado diversion above station.
- (5) Observed flow corrected for Jackson Lake Storage.

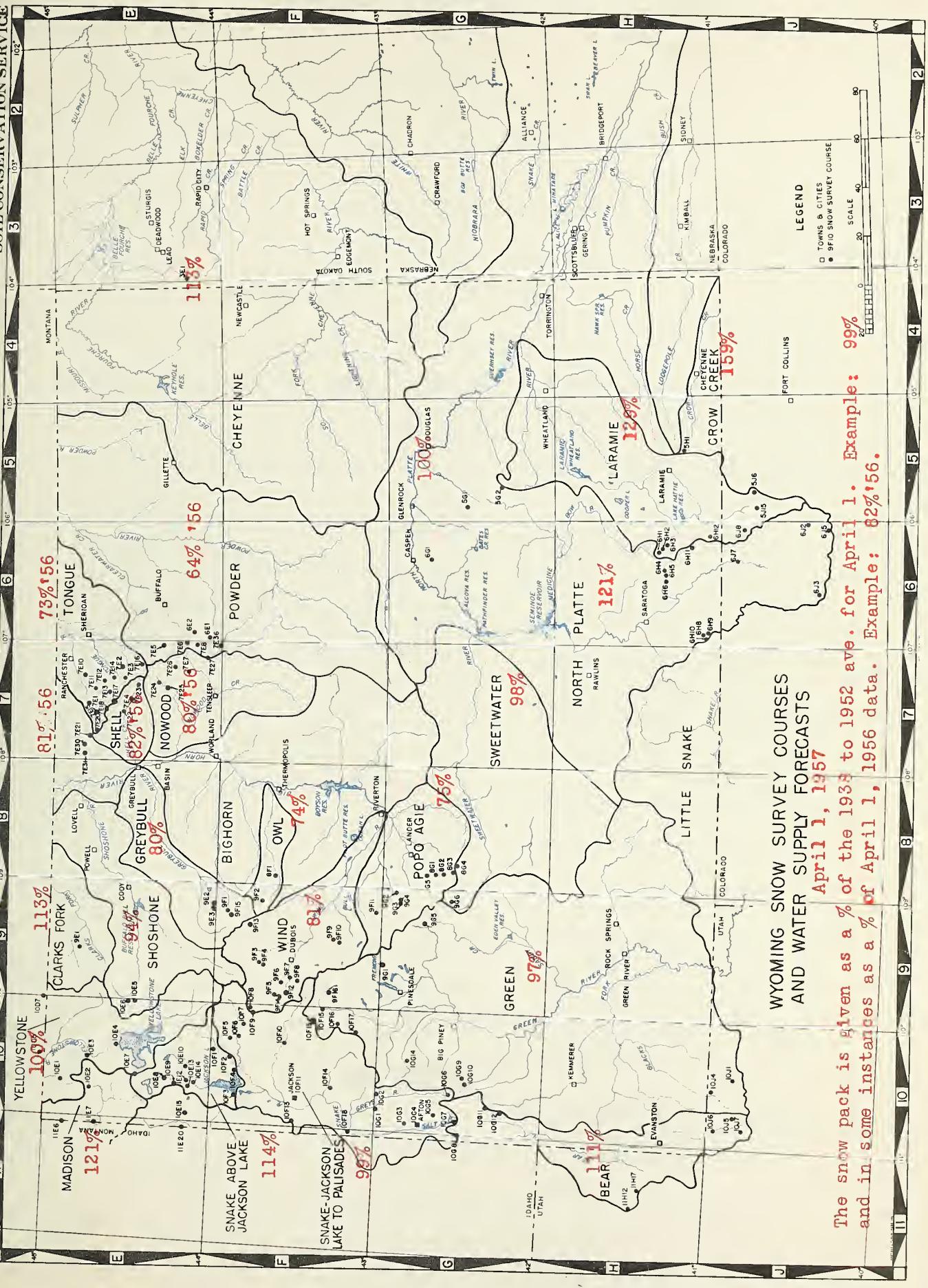
* Less than 15.

** Estimated 1938-52 average.

10. The following table gives the number of hours worked by each of the 100 workers.

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICES



INDEX TO WYOMING SNOW COURSES

LOCATION

Drainage Basin and Course Name	Wyoming Number	Elev.	Sec.	Lat.	Twp.	Range Long.	Record Begun	Miles a Dates	Miles b By
MISSOURI RIVER DRAINAGE									

MAJOLSON RIVER

Norris Basin	10E2	7500	44°44'			110°42'	1936	3,4	2
21 Mile m	11E6	7150	1	11S	5E		1934	1,2,3,4,5	6
West Yellowstone m	11E7	6700	34		13S	5E	1934	1,2,3,4,5	6

YELLOWSTONE

Canyon	10E3	7750	44°44'			110°30'	1938	1,2,3,4,5	1
Cooke City m	10D7	7400	25	9S	14S		1937	1,2,3,4,5	2
Crow Mountain m	10E6	8400	22	9S	9E		1935	3,4	4
East Entrance	10E5	7000	17	52N		109°48'	1948	1,2,3,4,5	2
Lake Casper	10E4	7100	17	52N		109°48'	1948	1,2,3,4,5	1
Lupine Creek	10E1	7300	44°54'			110°57'	1938	1,2,3,4,5	2
Thumb Divide	10E7	7900	44°22'			110°53'	1946	2,3,4,5	5
Sylvan Pass	10E5	7100	12	52N		110W	1936	1,2,3,4,5	2

CLARK'S FORK

Lodgespole	SE1	8200	32	56E		108W	1940	2,3,4,5	1,4
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INDIAN RIVER

Big Horn	9F12	8800	36	42N		109W	1956	2,3,4,5	1
Brooks Lake #3	10F8	9200	23	44N		110W	1939	2,3,4,5	1
Burroughs Creek	9F4	8800	16	43N		107W	1948	2,3,4,5	1
Cinnabond	9F10	10000	9	38N		105W	1948	2,3,4,5	1
Dry Creek	9F9	9500	34	4N		105W	1948	2,3,4,5	1
Dubois	9F6	8750	27	42N		107W	1940	2,3,4,5	1
East Fork	9F13	9000	35	44N		104W	1956	2,3,4,5	1
Fox Creek	9F7	8800	12	41N		108W	1948	2,3,4,5	1
Little Horn	9F8	9500	24	41N		108W	1948	2,3,4,5	1
Sheridan R.S. #1 of	9F5	7500	19	42N		109W	1959	2,3,4,5	1
Sheridan R.S. #2	9F14	7500	19	42N		109W	1955	2,3,4,5	1
T-Cross Ranch	9F3	8000	1	43N		107W	1940	2,3,4,5	1
Togwotee Pass	10F9	9600	29	44N		110W	1936	2,3,4	5

POPO AJIJA RIVER

Blue Ridge	8J2	9500	23	33N		101W	1939	2,3,4,5	1
Bruce's Camp	8J5	6500	24	32N		101W	1955	2,3,4	1
Hobbs Park	9J3	10000	22	2S		104W	1948	2,3,4,5	1
Lasquito Park R.S.	9J4	9500	23	2S		104W	1940	2,3,4,5	1
Sawmill Glade	8G1	8500	3	31N		101W	1939	2,3,4,5	1
South Pass	8G3	9000	13	30N		101W	1939	2,3,4,5	1
St. Lawrence R.S.	9H11	9000	26	1N		104W	1940	2,3,4,5	1
Trotter Creek	9G2	8400	5	2S		104W	1948	2,3,4,5	1

CROW CREEK

Pole Mountain #2	SH1	8700	35			15N	1936	2,3,4,5	1,4
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NORTH PLATTE

Albion	SH11	9400	18			14N	78W	1949	2,3,4,5
Bottle Creek	SH18	8200	24			14N	85W	1936	2,3,4,5
Boxelder	SH1	9000	31			15N	75W	1950	2,3,4,5
Casper Mountain	SH11	8700	16			32N	79W	1954	1,2,3,4,5
Columbine	SH3	9300	21			8N	82W	1936	2,3,4,5

MISSOURI RIVER DRAINAGE

Fox Park	SH12	9200	21			13N	78W	1949	2,3,4,5
LeBonte	SH2	8450	11			27N	74W	1949	2,3,4,5
North Barrett Creek #2	SH5	9400	30			16N	80W	1936	2,3,4,5
North French Creek #1	SH4	10000	27			16N	80W	1936	2,3,4,5
North Barrett Creek #2	SH2	10000	27			16N	80W	1936	2,3,4,5

NORTH PLATTE

Northgate	SH7	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH8	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH9	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH10	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH11	8500	1	42N		109W	1948	2,3,4,5	1

CROW CREEK

Northgate	SH12	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH13	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH14	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH15	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH16	8500	1	42N		109W	1948	2,3,4,5	1

MISSOURI RIVER DRAINAGE

Northgate	SH17	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH18	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH19	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH20	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH21	8500	1	42N		109W	1948	2,3,4,5	1

NORTH PLATTE

Northgate	SH22	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH23	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH24	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH25	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH26	8500	1	42N		109W	1948	2,3,4,5	1

CROW CREEK

Northgate	SH27	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH28	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH29	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH30	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH31	8500	1	42N		109W	1948	2,3,4,5	1

MISSOURI RIVER DRAINAGE

Northgate	SH32	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH33	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH34	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH35	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH36	8500	1	42N		109W	1948	2,3,4,5	1

CROW CREEK

Northgate	SH37	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH38	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH39	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH40	8500	1	42N		109W	1948	2,3,4,5	1
Northgate	SH41	8500	1	42N		109W			

COOPERATIVE SNOW SURVEYS

Summary of Snow Measurements

April 1, 1957

WATERSHEDS	NO. OF COURSES AVERAGED	YEARS USED* 1938- 1952	1957 SNOW WATER EXPRESSED AS PERCENTAGE OF 1938-1952			
			1956	1955	Average	
MADISON RIVER-YELLOWSTONE PARK	3	13 - 15	92	130	121	
UPPER YELLOWSTONE-YELLOWSTONE PARK	8	8*-15	73	120	100	
LOWER YELLOWSTONE-CLARK'S FORK	1	13	77	118	113	
LOWER YELLOWSTONE-MIAMI RIVER	9	7*-15	63	105	81	
LOWER YELLOWSTONE-POPO AGIE RIVER	7	8*-13	66	86	75	
LOWER YELLOWSTONE-OWL CREEK	1-2	6* - 8*	67	97	74	
LOWER YELLOWSTONE-GREYBULL RIVER	2	8* -12*	92	103	80	
LOWER YELLOWSTONE-SHOSHONE RIVER	2	8* -14	68	125	94	
LOWER YELLOWSTONE-NOWOOD CREEK	2-6	6* -15	80	112	100	
LOWER YELLOWSTONE-SHELL CREEK	1-6	1* -14	82	105	105	
LOWER YELLOWSTONE-PORCUPINE CREEK	2	1*	81	.	.	
LOWER YELLOWSTONE-TONGUE RIVER	2-15	1* -15	73	.	108	
LOWER YELLOWSTONE-POWDER RIVER	2-5	1* -15	64	100	95	

*Average of all past data.

COOPERATIVE SNOW SURVEYS

Summary of Snow Measurements

April 1, 1957

WATERSHEDS	NO. OF COURSES AVERAGED	YEARS USED*1938- 1952	1957 SNOW WATER EXPRESSED AS PERCENTAGE OF 1938-1952		
			1956	1955	Average
NORTH PLATTE-SWEETWATER	3	7* -15	77	117	98
NORTH PLATTE-LARAMIE RIVER	11	7* -15	104	166	129
NORTH PLATTE-CROW CREEK	1	15	159	196	159
NORTH PLATTE-ABOVE SEMINOLE RESERVOIR	15	7* -15	116	140	121
NORTH LARAMIE MOUNTAINS	2-3	2* -7*	153	92	100
MISSOURI-CHEYENNE RIVER	1	13*	200	94	113
UPPER COLORADO-GREEN RIVER	14	6* -15	77	122	97
SNAKE RIVER-ABOVE JACKSON LAKE	12	10* -15	79	125	114
JACKSON LAKE TO PALISADES	17	7* -15	75	117	99
BEAR RIVER	4	5* -15	116	110	111

*Average of all past data.

1. *Introduction*

1.1. *General*

The present paper is the first in a series of three papers dealing with the effect of the presence of a magnetic field on the properties of the α -relaxation process in polyethylene. The second paper will deal with the effect of the magnetic field on the β -relaxation process, and the third paper will deal with the effect of the magnetic field on the γ -relaxation process.

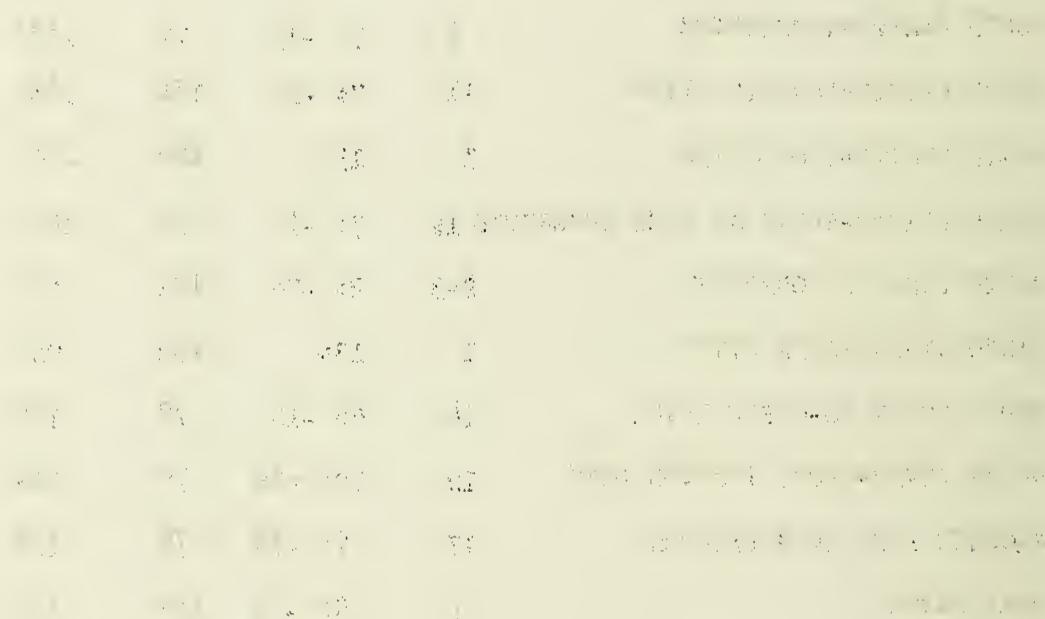


Fig. 1. Effect of a magnetic field on the α -relaxation process in polyethylene.

WYOMING SNOW SURVEYS - ABOUT APRIL 1, 1957

DRAINAGE BASIN and SNOW COURSE	No. or State Elev.	Survey	SNOW COVER MEASUREMENTS							
			1957			Past Record				
			Date	Snow Depth	Water Content	Water Content (In.)		Previous 1938-52 Yrs. of		
			(In.)	(In.)	(In.)	1956	1955	Average	Record	
<u>MADISON RIVER - YELLOWSTONE PARK</u>										
Norris Basin	10E2	7500	3/26	39	10.8	12.0	9.5	9.1**	18	
21 Mile ^m	11E6	7150	3/28	65	21.0	23.9	15.3	17.2	20	
West Yellowstone ^m	11E7	6700	3/28	47	14.2	14.1	10.7	11.6	20	
<u>UPPER YELLOWSTONE - YELLOWSTONE PARK</u>										
Canyon	10E3	7500	4/1	54	17.1	20.9	14.1	13.2**	18	
Cooke City ^m	10D7	7400	3/31	33	9.9	11.7	6.8	8.3	20	
Crevice Mtn ^m	10D5	8400	4/1	29	7.9	11.9	6.7	10.4	22	
East Entrance	10E6	7000	3/29	41	11.3	16.3	9.8	13.2*	8	
Lake Camp	10E4	7850	4/1	40	10.5	18.2	8.8	11.0**	19	
Lupine Creek	10E1	7300	3/25	44	11.4	14.0	12.2	10.6**	18	
Sylvan Pass	10E5	7100	3/29	51	14.9	20.5	11.4	15.0**	19	
Thumb Divide***	10E7	7900	3/28	74	25.3	35.5	20.8	26.8*	10	
<u>LOWER YELLOWSTONE - CLARK'S FORK</u>										
Lodgepole	9E1	8200	4/1	44	12.3	16.0	10.4	10.9**	18	
<u>LOWER YELLOWSTONE - WIND RIVER</u>										
Big Warm	9F12	8800	3/23	36	9.0	14.3	8.8		2	
Brooks Lake	10F8	9200	3/22	69	22.2	33.9	22.1	26.1**	20	
Burroughs Creek	9F4	8800	3/24	41	12.1	20.5	9.7	16.8*	8	
Dinwoodie	9F10	10000	3/25	40	10.9	18.1	10.5	15.2*	7	
Dry Creek	9F9	9500	3/25	24	5.3	9.9	4.8	8.0*	7	
DuNoir	9F6	8750	3/23	29	7.2	13.2	7.7	9.9**	16	
Geyser Creek	9F7	8500	3/23	27	7.2	11.4	7.6	9.9*	8	
Little Warm	9F8	9500	3/23	59	17.1	25.6	14.4	20.2*	8	
Sheridan R.S. #2	9F14	7500	3/22	28	7.0	10.9	6.7		2	
T-Cross Ranch	9F3	8000	3/24	24	6.0	10.2	5.9	7.5**	16	
Togwotee Pass	10F9	9600	3/29	81	27.9	41.5	27.7	29.1	21	

WYOMING SNOW SURVEYS ABOUT APRIL 1, 1957

DRAINAGE BASIN and SNOW COURSE	No. or State Elev.	Survey	SNOW COVER MEASUREMENTS						Previous 1938-52 Yrs. of Average Record
			1957 Date of Depth Survey	Snow Content (In.)	Water Content (In.)	:P a s t R e c o r d	1956	1955	
<u>LOWER YELLOWSTONE - POPO AGIE RIVER</u>									
Blue Ridge	8G2	9500	3/30	34	9.0	17.1	12.4	12.4**	17
Bruce's Camp	8G5	6500	3/30	0	0	0.0	2.1		2
Hobbs Park	9G3	10000	3/28	53	16.4	23.9	15.1	21.4*	8
Mosquito Park R.S.	9G4	9500	3/28	26	6.6	9.9	7.7	9.5*	12
Sawmill Glade	5G1	8500	3/30	21	5.2	7.8	7.9	8.0**	17
South Pass	8G3	9000	3/30	44	13.7	20.0	14.6	14.6**	17
St. Lawrence R.S.	9F11	9000	3/26	23	5.5	9.9	6.6	8.1*	13
Trout Creek	9G2	8400	3/28	17	4.3	4.0	5.9	7.0*	8
<u>LOWER YELLOWSTONE - OWL CREEK</u>									
Beavers Mill	9F2	8900	3/28	23	6.2	NR	4.9	7.3*	6
Owl Creek	8F1	8700	3/28	17	3.9	5.8	5.5	6.4*	8
<u>LOWER YELLOWSTONE - GREYBULL RIVER</u>									
Timber Creek #2	9E3	8800	3/29	12	2.7	2.2	3.1	3.6*!	
Wood River #1	9F1	8000						5.7**	12
Wood River #2	9F15	8000	3/30	20	4.7	5.8	4.1		2
<u>LOWER YELLOWSTONE - SHOSHONE RIVER</u>									
East Entrance	1OE6	7000	3/30	41	11.5	18.3	9.8	13.2*	8
Sylvan Pass	1OE5	7100	3/30	51	14.9	20.5	11.4	15.0**	18
<u>LOWER YELLOWSTONE - NOWOOD CREEK</u>									
Cold Springs Camp	7E25	8700	4/2	26	6.1	8.0			1
Medicine Lodge Lake	7E24	9500	4/2	38	10.5	12.9			1
Munkres Pass	7E8	9700	4/3	40	9.0	11.8	8.0	9.2*	6
Onion Gulch	7E27	8100	4/3	39	8.2	10.5			1
Tensleep Lake	7E26	9075	4/4	40	10.0	13.0			1
Tensleep R.S.	7E7	8300	4/4	28	7.5	7.8	6.7	7.2	20

! Timber Creek #1 abandoned. Timber Creek #2 average obtained from relationship of old and new courses.

WYOMING SNOW SURVEYS ABOUT APRIL 1, 1957

DRAINAGE BASIN and SNOW COURSE	No. or State Elev.	Survey	SNOW COVER MEASUREMENTS				
			1957 Date of Survey (In.)	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1938-52 Yrs. of Average Record
<u>LOWER YELLOWSTONE - SHELL CREEK</u>							
Bald Mountain	7E21	9600	3/26	60	16.6	19.8	1
Beaver-Tongue Div.	7E20	9200	3/26	56	14.6	19.9	1
Bone-Spring Div.	7E18	9200	3/28	59	15.1	18.1	1
Granite Cr. Camp	7E22	7800	4/5	13	3.4	3.4	1
Granite Pass	7E17	8950	3/28	59	14.6	17.7	1
Ranger Creek	7E4	8800	4/5	33	8.8	10.0	8.4**
Shell Creek	7E23	9600	No Report			16.3	1
<u>LOWER YELLOWSTONE - PORCUPINE CREEK</u>							
Five Springs Falls	7E31	7500	4/1	19	4.4	6.8	1
Medicine Wheel	7E30	9000	3/27	49	12.7	14.2	1
<u>LOWER YELLOWSTONE - TONGUE RIVER</u>							
Beaver-Tongue Div.	7E20	9200	3/26	56	14.6	19.9	1
Big Goose #1	7E2	7700	3/31	17	4.1	4.4	NR 4.1
Big Goose #2	7E32	7700	3/31	30	6.7	9.4	1
Bone-Spring Div.	7E18	9200	3/28	59	15.1	18.1	1
Burgess R.S. #1	7E1	7900	3/27	24	4.8	7.2	NR 13.7
Burgess R.S. #2	7E33	7900	3/27	28	6.2	8.2	NR 1
Dome Lake #1	7E3	8800	3/31	35	9.0	9.6	NR 8.0*
Dome Lake #2	7E34	8800	3/31	37	9.3	12.9	1
Gloom Creek	7E14	9300	3/29	42	10.5	13.7	1
Granite Pass	7E17	8950	3/28	59	14.6	17.7	1
North Tongue	7E15	8800	3/27	27	6.0	13.9	1
Sibley Lake	7E11	8000	3/30	32	7.2	10.3	1
Sucker Creek	7E12	9000	3/29	39	8.8	13.1	1
Steamboat Point	7E10	7500	3/30	21	5.1	8.5	1
Wood Rock G.S.	7E13	8500	3/28	40	9.4	12.1	1

WYOMING SNOW SURVEYS - ABOUT APRIL 1, 1957

DRAINAGE BASIN and SNOW COURSE	No. or State Elev.	Survey	SNOW COVER MEASUREMENT					
			1957		:Past Record			
			Date of Survey	Snow Depth (In.)	Water Content (In.)	:Water Content (In.)	Previous 1938-52 Yrs. of Average Record	

LOWER YELLOWSTONE - POWDER RIVER

Muddy Creek G.S.	7E28	7800	4/3	19	3.5	5.5			1
Munkres Pass	7E8	9700	4/3	40	9.0	11.8	8.0	9.2*	6
Onion Gulch	7E27	8100	4/3	39	8.2	10.5			1
Soldier Park	7E5	8700	4/2	24	4.0	9.6	NR	5.5*	5
Sour Dough	7E6	8500	4/4	33	6.7	11.8	7.7	6.1	20

NORTH PLATTE - SWEETWATER

Grannier Meadows	8G4	9000	3/30	44	12.6	17.2	14.4	14.1	20
Larsen Creek	9G6	9000	4/4	38	13.9	14.8	5.4	12.4*	7
South Pass	8G3	9000	3/30	44	13.7	20.0	14.6	14.6**	17

NORTH PLATTE - LARAMIE RIVER

Albany	6H11	9400	3/29	47	15.8	16.3	9.6	14.6*	8
Brooklyn Lake #1	6H1	10200	3/29	76	28.8	30.5	18.7	22.6	21
Brooklyn Lake #2	6H13	10200	3/29	72	25.9	28.2			1
Cameron Pass ^c	5J1	10300	3/28	84	29.7	30.5	18.9	21.8	21
Chambers Lake ^c	5J2	9000	3/31	44	12.8	10.5	7.0	8.2	21
Deadman Hill ^c	5J6	10200	3/29	63	21.2	23.2	13.7	15.5	20
Foxpark	6H12	9200	3/30	34	7.4	5.9	4.0	8.0	21
Hairpin Turn #2	6H2	9500	3/29	44	14.2	14.6	8.5	11.9	21
Libby Lodge #2	6H3	8700	3/29	39	12.6	12.1	7.1	10.3	21
McIntyre ^c	5J15	9100	3/28	49	15.6	11.9	8.3	11.8*	7
Pole Ittn. #2	5H1	8700	3/29	31	9.2	5.8	4.7	5.8**	20
Roach ^c	6J8	9800	3/28	74	26.2	25.1	15.7	19.5**	17

1860-1861. - 1861-1862. - 1862-1863.

1863-1864. - 1864-1865. - 1865-1866.

1866-1867. - 1867-1868. - 1868-1869.

1869-1870. - 1870-1871. - 1871-1872.

1872-1873. - 1873-1874. - 1874-1875.

1875-1876. - 1876-1877. - 1877-1878.

1878-1879. - 1879-1880. - 1880-1881.

1881-1882. - 1882-1883. - 1883-1884.

1884-1885. - 1885-1886. - 1886-1887.

1887-1888. - 1888-1889. - 1889-1890.

1890-1891. - 1891-1892. - 1892-1893.

1893-1894. - 1894-1895. - 1895-1896.

1896-1897. - 1897-1898. - 1898-1899.

1899-1900. - 1900-1901. - 1901-1902.

1902-1903. - 1903-1904. - 1904-1905.

1905-1906. - 1906-1907. - 1907-1908.

1908-1909. - 1909-1910. - 1910-1911.

1911-1912. - 1912-1913. - 1913-1914.

1914-1915. - 1915-1916. - 1916-1917.

1917-1918. - 1918-1919. - 1919-1920.

1920-1921. - 1921-1922. - 1922-1923.

1923-1924. - 1924-1925. - 1925-1926.

1926-1927. - 1927-1928. - 1928-1929.

1929-1930. - 1930-1931. - 1931-1932.

1932-1933. - 1933-1934. - 1934-1935.

1935-1936. - 1936-1937. - 1937-1938.

1938-1939. - 1939-1940. - 1940-1941.

1941-1942. - 1942-1943. - 1943-1944.

1944-1945. - 1945-1946. - 1946-1947.

1947-1948. - 1948-1949. - 1949-1950.

1950-1951. - 1951-1952. - 1952-1953.

WYOMING SNOW SURVEYS ABOUT APRIL 1, 1957

DRAINAGE BASIN and SNOW COURSE	No. or State Elev.	Survey	SNOW COVER MEASUREMENTS						Previous 1938-52 Yrs. of Average Record	
			1957			Past Record				
			Date	Snow Depth	Water Content (In.)	1956	1955			

NORTH PLATTE - CROW CREEK

Pole Mtn. #2	5H1	8700	3/29	31	9.2	5.8	4.7	5.8**	20
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NORTH PLATTE - ABOVE SEMINOE RESERVOIR

Albany	6H11	9400	3/29	47	15.8	16.3	9.6	14.6*	8
Bottle Creek	6H8	8200	4/2	48	17.6	15.1	14.1	14.3	21
Boxelder	5G1	9000	3/28	31	7.2	4.2	8.4	7.2*	7
Cameron Pass ^c	5J1	10300	3/28	84	29.7	30.5	18.9	21.8	21
Casper Mountain	6G1	8700	4/1	50	13.6	11.1	12.5		2
Columbine ^c	6J3	9300	3/29	79	30.1	27.9	22.3	23.5	21
Foxpark	6H12	9200	3/30	34	7.4	5.9	4.0	8.0	21
LaBonte	5G2	8450	3/28	28	7.6	8.3	10.0	7.6*	7
North Barrett Cr.	6H5	9400	4/3	72	24.0	21.3	18.8	20.4	21
North French Cr. #1	6H4	10200	4/3	102	37.8	31.8	24.1	30.1	19
Northigate ^c	6J7	8500	4/1	31	9.2	6.8	4.8	6.0*	7
Old Pattle	6H10	9800	4/2	96	38.5	34.8	25.3	32.3	21
Park View ^c	6J2	9200	3/29	43	11.8	8.3	7.8	10.6	21
Ryan Park	6H6	8400	4/3	51	16.0	10.8	11.7	11.7	21
Spring Creek	6H7	9000			Abandoned				
Webber Spring	6H9	9000	4/2	59	22.1	20.2	16.7	19.2	21
Willow Cr. Pass ^c	6J5	9500	3/29	54	16.6	14.8	11.2	13.5	19

NORTH LARAMIE MOUNTAINS

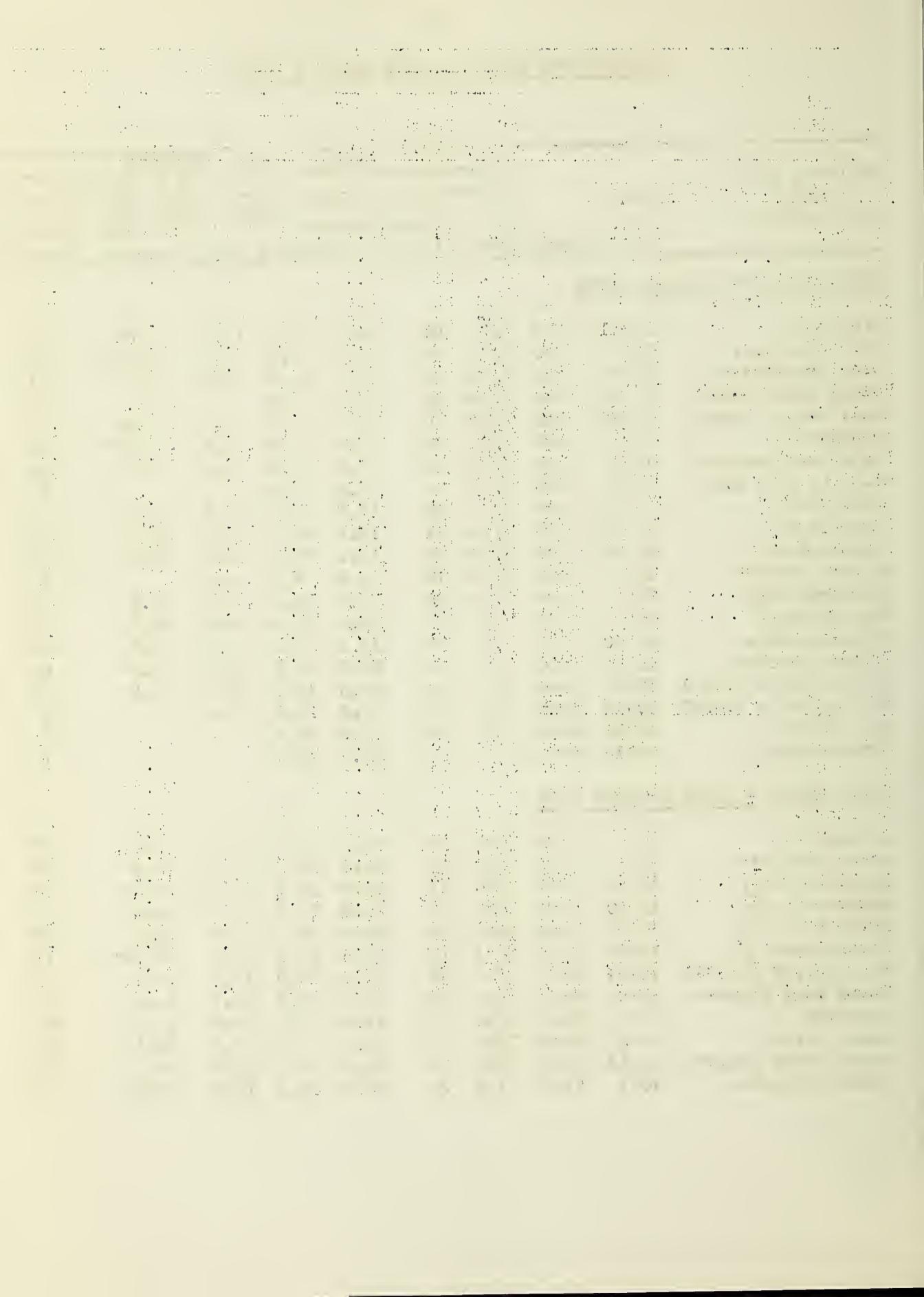
Boxelder	5G1	9000	3/28	31	7.2	4.2	8.4	7.2*	7
Casper Mountain	6G1	8700	4/1	50	13.6	11.1	12.5		2
La Bonte	5G2	8450	3/28	28	7.6	3.3	10.0	7.6*	7

MISSOURI - CHEYENNE RIVER

Upper Spearfish ^s	3E1	6500	4/1	27	8.0	4.0	8.5	7.1*	13
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WYOMING SNOW SURVEYS ABOUT APRIL 1, 1957

DRAINAGE BASIN and SNOW COURSE	No. or State Elev.	Date of Survey	SNOW COVER MEASUREMENTS						Previous 1938-52 Yrs. of Average	Record		
			1957			Past Record						
			Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1956	1955	Average				
<u>UPPER COLORADO - GREEN RIVER</u>												
Big Park	10G11	8700	4/3	61	19.7	26.1	16.6	23.0*	6			
Dutch Joe R.S.	9G5	8700	4/2	34	9.2	9.4	8.2	8.2**	17			
East Rim Divide	10F17	7950	3/24	36	11.1	15.9	9.1	11.4	21			
Green River Lakes	9F16	8100	3/26	22	5.5	6.6			1			
Gros Ventre Summit	10F19	8750	3/27	44	12.5	16.2	9.8	13.4*	9			
Hewintau	10J4	9500	3/21	35	9.4	9.5	8.3	9.9**	23			
Hole-in-the-Rock ^u	10J1	9150	3/28	28	7.0	4.4	6.1	6.4	26			
Hole in Rock R.S. ^u	10J3	6500	3/28	0	0.0	3.2			3			
Kelly R.S.	10G12	8200	4/3	54	17.6	23.4	15.3	20.1*	6			
Kendall R.S.	10F15	7900	3/26	31	12.1	14.6	6.3	11.1	20			
Loomis Park	10F16	8500	3/24	54	18.1	26.4	15.1	16.7	20			
Middle Beaver ^u	10J2	6550	3/28	18	5.2	4.5	5.4		3			
Mulligan Park	9G1	8900	3/25	35	10.4	12.0	6.6	10.8	21			
Old Battle /	6H10	9300	4/2	96	28.5	34.8	25.3	32.3	21			
Piney-LaBarge	10G10	6820	4/1	57	19.1	26.2	16.4	18.5	20			
Pinson Meadows	10G6	8500	4/2	94	30.3	47.0	22.5	31.5*	9			
Snyder Basin R.S. ^{#1}	10G9	8040	4/1	46	14.5	19.6	12.2	13.9	21			
Snyder Basin R.S. ^{#2}	10G13	8040	4/1	51	16.6	21.5	14.4		2			
Soda Lake	10G14	8300	4/2	56	20.0	23.4			1			
Triple Peaks	10G15	8500	4/2	83	32.0	40.3			1			
<u>SNAKE RIVER - ABOVE JACKSON LAKE</u>												
Arizona***	10F1	6850	3/28	63	22.1	27.8	17.1	17.9	27			
Aster Creek***	10E8	7700	3/28	96	35.3	48.7	30.6	31.6	27			
Base Camp*** /	10F2	6900	3/30	61	22.3	25.8	18.1	20.5*	10			
Coulter Creek	10E10	7500	3/27	81	29.0	33.1	20.7	22.5	27			
Glade Creek***	10E13	7200	3/28	74	26.4	33.1	20.3	23.2	27			
Grassy Lake /	10E15	7265	3/31	103	40.5	46.0	34.9	33.7**	17			
Huckleberry Div.***	10E14	7300	3/28	63	21.2	28.0	17.9	19.9	27			
Lewis Lake Div.***	10E9	7900	3/28	122	48.0	65.8	38.7	43.0	27			
Moran***	10F4	6500	3/29	42	13.6	18.5	10.7	10.7	27			
Moran Bay***	10F3	6800	3/28	70	24.6	30.4	17.3	22.1	27			
Snake River Sta.***	10E12	6780	3/28	69	24.4	30.0	19.3	19.9	27			
Thumb Divide***	10E7	7900	3/28	74	25.3	35.5	20.8	26.8*	10			



WYOMING SNOW SURVEYS ABOUT APRIL 1, 1957

DRAINAGE BASIN and SNOW COURSE	No. or State Elev.	Date of Survey (In.)	Snow Depth (In.)	Water Content (In.)	SNOW COVER MEASUREMENTS			Previous 1938-52 Yrs. of Average	Record
					1957	Past Record	1956		
<u>JACKSON LAKE TO PALISADES</u>									
Afton R. S.	10G4	6200	3/28	9	3.2	0.3	5.5	1.7**	21
Blackrock	10F7	8600	3/29	65	20.5	31.9	18.2	22.6	21
Bryan Flat	10F14	6250	4/1	31	9.2	11.5	8.1	10.2	21
CCC Camp	10G7	7500	3/28	46	14.9	12.1	10.8	11.4**	20
East Rim Divide	10F17	7950	3/24	36	11.1	18.9	9.1	11.4	21
Four Mile Meadows	10F6	7770	3/29	48	13.1	18.4	10.6	13.5	21
Greys Boundary	10F18	5800	3/28	32	12.4	10.8	11.0	10.9	21
Gros Ventre Summit	10F19	8750	3/27	44	12.5	16.2	9.8	13.4*	9
Grover Park Divide	10G3	7500	3/28	42	13.6	12.1	9.3	11.1	21
Loomis Park /	10F16	8500	3/24	54	18.1	26.4	15.1	16.7	20
Poison Meadows	10G6	8500	4/2	94	30.3	47.0	22.5	31.5*	9
Salt River Summit	10G8	7900	3/28	54	18.6	18.5	12.1	16.6*	9
Snow King Mtn. #1	10F11	7600	3/29	38	9.6	17.2	9.3	12.9*	7
Snow King Mtn. #2	10F12	7200	3/29	35	10.0	14.7	9.1	3	
Teton Pass #2	10F13	8500	3/29	98	35.1	51.2	34.0	39.8*	12
Togwotee Pass	10F9	9600	3/29	81	27.9	41.5	27.7	29.1	21
Turpin Meadows	10F5	6930	3/29	41	11.0	14.9	7.9	10.7	21
Yellowjacket	10F10	7675	3/29	24	6.1	5.4	4.9	6.5**	20
<u>BEAR RIVER</u>									
Big Park	10G11	8700	4/3	61	19.7	26.1	16.6	23.0*	6
CCC Camp	10G7	7500	3/28	46	15.0	12.1	10.8	11.4**	20
Goodman Ranch ^u	10J6	7900	3/22	30	8.0	4.7	7.3	5.6**	19
Hayden Fork ^u	10J7	9300	3/22	55	16.3	20.8	17.6	20.2*	5
Head of Bear River ^u	10J5	8600	Not Measured		9.4	8.3			22
Kelly R.S.	10G12	8200	4/3	54	17.6	23.4	13.3	20.1*	6
Monte Cristo R.S. ^u	11H12	8960	3/29	70	25.7	31.6	26.9	26.3	24
Poison Meadows	10G6	8500	4/2	94	30.3	47.0	22.5	31.5*	9
Salt River Summit	10G8	7900	3/28	54	18.6	18.5	12.1	16.6*	9
Still Water Camp ^u	10J17	8550	3/22	46	12.8	13.1	11.3		2

* Average of all past data

** Average is for 10 to 14 years of record in the 1938-52 period.

*** April 1, 1930-1950 water contents estimated from March 15 and April 15 snow surveys and Snake River Station climatological data.

c. Colorado snow courses.

m. Montana snow courses.

s. South Dakota snow courses.

u. Utah snow courses.

/ Not located directly on this drainage.

STATUS OF WYOMING AND SOUTH DAKOTA RESERVOIR STORAGE - APRIL 1, 1957

RASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET			
			1957	1956	1955	15-Yr Avg. 1938-52
Snake River	Jackson	347.0	149.4	325.2	473.8	485.3
Snake River	Palisades	1202.0	307.9			
North Platte	Seminole	981.8	240.1	212.8	281.9	331.4*
North Platte	Pathfinder	1011.0	313.2	464.4	476.0	474.9*
North Platte	Alcova**	190.5	171.7	163.8	116.5	90.9
North Platte	Guernsey	39.8	0.9	32.4	32.0	40.3
North Platte	Sutherland	70.0	55.5	53.2	60.0	51.1*
North Platte	Kingsley	1900.0	640.0	923.4	1192.0	1182.4*
North Platte	Minatare	60.8	23.6	16.8		
Kansas Basin	Bonny	39.9	37.5	40.2	38.3	19.1*
Kansas Basin	Swanson Lake	116.1	85.7	65.2	35.7	
Kansas Basin	Enders	36.0	33.5	43.9	34.9	19.8*
Kansas Basin	Harry Strunk	33.9	27.1	30.6	29.8	27.3*
Kansas Basin	Harlan County	252.9	63.6	191.7	90.5	
Kansas Basin	Cedar Bluff	176.8	112.1	127.0	85.7	71.2*
Laramie River	Wheatland	95.0	9.7 No Report		0.5	36.0
Belle Fourche	Belle Fourche	185.2	49.9	98.8	68.0	117.2*
Belle Fourche	Keyhole	190.3	2.6	20.8	15.0	1.3*
Shoshone River	Buffalo Bill***	380.3	116.4	117.2	133.8	252.8
Wind River	Boysen	560.0	192.6		268.7	152.4*
Wind River	Pilot Butte	31.6	21.8	23.3	26.4	17.2*
Wind River	Bull Lake	152.0	63.2	55.3	62.2	51.6*
Cheyenne River	Angostura	92.0	33.5	78.4	48.5	41.0*
Cheyenne River	Deerfield	15.1	8.6	10.6	10.9	13.7*
Grand River	Shadehill	84.0	7.6 No Report		77.8	
Green River	Big Sandy	38.3	11.1	9.8	9.8	

* Average is for less than 15 years of record in the 1938-52 period.

** Alcova, downstream from Seminole and Pathfinder and containing 160,170 Acre Feet of active storage that is unavailable to the Kendrick Project.

*** Usable capacity 439,800, however 59,500 acre-feet are inactive except in emergency.

The data included in this report were obtained by
the Soil Conservation Service in cooperation with
the agencies named below:

STATE

State Engineer of Wyoming

FEDERAL

U.S. Department of Agriculture
Forest Service

U.S. Department of Commerce
Weather Bureau

U.S. Department of the Interior
Bureau of Reclamation
National Park Service
Geological Survey

PRIVATE

Wheatland Irrigation District

Federal - State - Private
COOPERATIVE SNOW SURVEYS

—
Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

—
“WATER IS THE WEST'S GREATEST RESOURCE”